

=> d his

(FILE 'HOME' ENTERED AT 11:30:35 ON 29 MAY 2009)

FILE 'REGISTRY' ENTERED AT 11:30:57 ON 29 MAY 2009

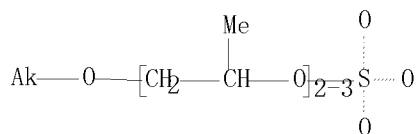
L1 STRUCTURE UPLOADED

L2 0 S L1

L3 27 S L1 FULL

=> d que l3 stat

L1 STR



Structure attributes must be viewed using STN Express query preparation.

L3 27 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 3037 ITERATIONS

27 ANSWERS

SEARCH TIME: 00.00.01

=> s l3 and ed<2/10/2005

80447460 ED<2/10/2005

(ED<20050210)

L4 27 L3 AND ED<2/10/2005

=> s l3 and caplus/lc

66484516 CAPLUS/LC

L5 15 L3 AND CAPLUS/LC

=> s l3 not l5

L6 12 L3 NOT L5

=> d 1-12 ide can

L6 ANSWER 1 OF 12 REGISTRY COPYRIGHT 2009 ACS on STN

RN 779997-03-4 REGISTRY

ED Entered STN: 12 Nov 2004

CN 2-Propanol, 1-[2-[2-(dodecyloxy)-1-methylethoxy]-1-methylethoxy]-,  
2-(hydrogen sulfate) (CA INDEX NAME)

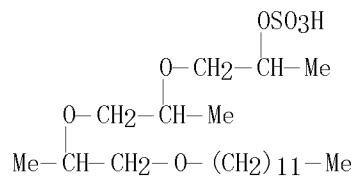
OTHER CA INDEX NAMES:

CN 2-Propanol, 1-[2-[2-(dodecyloxy)-1-methylethoxy]-1-methylethoxy]-,  
hydrogen sulfate (9CI)

MF C21 H44 O7 S

CI COM

SR CA



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L6 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2009 ACS on STN

RN 759394-50-8 REGISTRY

ED Entered STN: 08 Oct 2004

CN 2-Propanol, 1-[1-methyl-2-(octadecyloxy)ethoxy]-, 2-(hydrogen sulfate)  
(CA INDEX NAME)

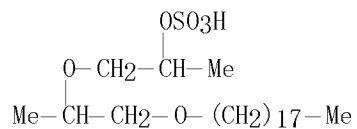
OTHER CA INDEX NAMES:

CN 2-Propanol, 1-[1-methyl-2-(octadecyloxy)ethoxy]-, hydrogen sulfate (9CI)

MF C24 H50 O6 S

CI COM

SR CA



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L6 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2009 ACS on STN

RN 755744-29-7 REGISTRY

ED Entered STN: 01 Oct 2004

CN 2-Propanol, 1-[1-methyl-2-[1-methyl-2-(octyloxy)ethoxy]ethoxy]-,  
2-(hydrogen sulfate) (CA INDEX NAME)

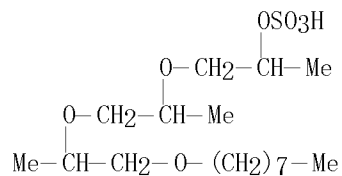
OTHER CA INDEX NAMES:

CN 2-Propanol, 1-[1-methyl-2-[1-methyl-2-(octyloxy)ethoxy]ethoxy]-, hydrogen  
sulfate (9CI)

MF C17 H36 O7 S

CI COM

SR CA



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L6 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2009 ACS on STN

RN 752920-41-5 REGISTRY

ED Entered STN: 27 Sep 2004

CN 2-Propanol, 1-[1-methyl-2-(tetradecyloxy)ethoxy]-, 2-(hydrogen sulfate)  
(CA INDEX NAME)

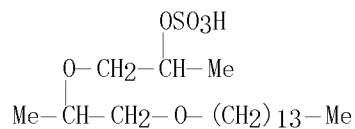
OTHER CA INDEX NAMES:

CN 2-Propanol, 1-[1-methyl-2-(tetradecyloxy)ethoxy]-, hydrogen sulfate (9CI)

MF C20 H42 O6 S

CI COM

SR CA



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L6 ANSWER 5 OF 12 REGISTRY COPYRIGHT 2009 ACS on STN

RN 744953-09-1 REGISTRY

ED Entered STN: 15 Sep 2004

CN 2-Propanol, 1-[2-(hexadecyloxy)-1-methylethoxy]-, 2-(hydrogen sulfate)  
(CA INDEX NAME)

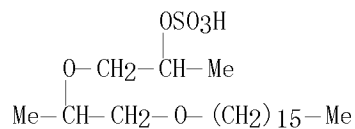
OTHER CA INDEX NAMES:

CN 2-Propanol, 1-[2-(hexadecyloxy)-1-methylethoxy]-, hydrogen sulfate (9CI)

MF C22 H46 O6 S

CI COM

SR CA



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L6 ANSWER 6 OF 12 REGISTRY COPYRIGHT 2009 ACS on STN

RN 740762-57-6 REGISTRY

ED Entered STN: 06 Sep 2004

CN 2-Propanol, 1-[2-[2-(hexadecyloxy)-1-methylethoxy]-1-methylethoxy]-,  
2-(hydrogen sulfate) (CA INDEX NAME)

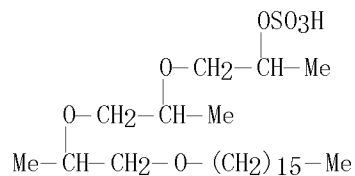
OTHER CA INDEX NAMES:

CN 2-Propanol, 1-[2-[2-(hexadecyloxy)-1-methylethoxy]-1-methylethoxy]-,  
hydrogen sulfate (9CI)

MF C25 H52 O7 S

CI COM

SR CA



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L6 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2009 ACS on STN

RN 739356-91-3 REGISTRY

ED Entered STN: 05 Sep 2004

CN 2-Propanol, 1-[1-methyl-2-[1-methyl-2-(tetradecyloxy)ethoxy]ethoxy]-,  
2-(hydrogen sulfate) (CA INDEX NAME)

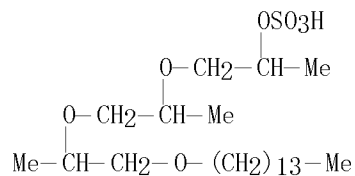
OTHER CA INDEX NAMES:

CN 2-Propanol, 1-[1-methyl-2-[1-methyl-2-(tetradecyloxy)ethoxy]ethoxy]-,  
hydrogen sulfate (9CI)

MF C23 H48 O7 S

CI COM

SR CA



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*



L6 ANSWER 8 OF 12 REGISTRY COPYRIGHT 2009 ACS on STN

RN 738572-18-4 REGISTRY

ED Entered STN: 03 Sep 2004

CN 2-Propanol, 1-[2-[2-(decyloxy)-1-methylethoxy]-1-methylethoxy]-,  
2-(hydrogen sulfate) (CA INDEX NAME)

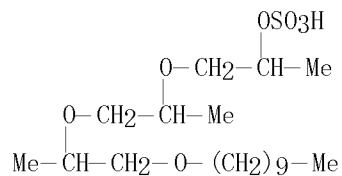
OTHER CA INDEX NAMES:

CN 2-Propanol, 1-[2-[2-(decyloxy)-1-methylethoxy]-1-methylethoxy]-, hydrogen  
sulfate (9CI)

MF C19 H40 O7 S

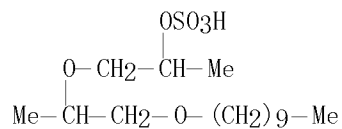
CI COM

SR CA



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L6 ANSWER 9 OF 12 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 732237-91-1 REGISTRY  
ED Entered STN: 25 Aug 2004  
CN 2-Propanol, 1-[2-(decyloxy)-1-methylethoxy]-, 2-(hydrogen sulfate) (CA  
INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 2-Propanol, 1-[2-(decyloxy)-1-methylethoxy]-, hydrogen sulfate (9CI)  
MF C16 H34 O6 S  
CI COM  
SR CA



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L6 ANSWER 10 OF 12 REGISTRY COPYRIGHT 2009 ACS on STN

RN 727645-63-8 REGISTRY

ED Entered STN: 16 Aug 2004

CN 2-Propanol, 1-[2-[2-[(2-hexyldecyl)oxy]-1-methylethoxy]-1-methylethoxy]-,  
2-(hydrogen sulfate) (CA INDEX NAME)

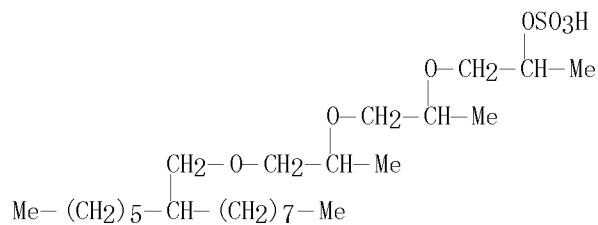
OTHER CA INDEX NAMES:

CN 2-Propanol, 1-[2-[2-[(2-hexyldecyl)oxy]-1-methylethoxy]-1-methylethoxy]-,  
hydrogen sulfate (9CI)

MF C25 H52 O7 S

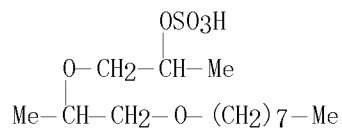
CI COM

SR CA



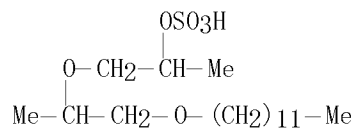
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L6 ANSWER 11 OF 12 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 713487-85-5 REGISTRY  
 ED Entered STN: 20 Jul 2004  
 CN 2-Propanol, 1-[1-methyl-2-(octyloxy)ethoxy]-, 2-(hydrogen sulfate) (CA  
 INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 2-Propanol, 1-[1-methyl-2-(octyloxy)ethoxy]-, hydrogen sulfate (9CI)  
 MF C14 H30 O6 S  
 CI COM  
 SR CA



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L6 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 697215-17-1 REGISTRY  
ED Entered STN: 21 Jun 2004  
CN 2-Propanol, 1-[2-(dodecyloxy)-1-methylethoxy]-, 2-(hydrogen sulfate) (CA  
INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 2-Propanol, 1-[2-(dodecyloxy)-1-methylethoxy]-, hydrogen sulfate (9CI)  
MF C18 H38 O6 S  
CI COM  
SR CA



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

=> fil capl  
FILE 'CAPLUS' ENTERED AT 11:34:31 ON 29 MAY 2009  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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FILE COVERS 1907 - 29 May 2009 VOL 150 ISS 23  
FILE LAST UPDATED: 28 May 2009 (20090528/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

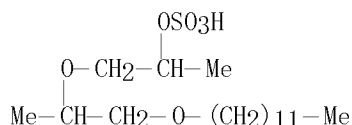
<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate  
'FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

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L7 7 L3

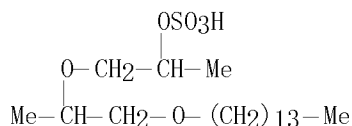
=> d 1-7 bib abs hitstr

L7 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2001:364948 CAPLUS  
 DN 135:124134  
 TI New developments in structure-CMC relationships for anionic surfactants  
 AU Roberts, D. W.  
 CS Unilever Research Port Sunlight Laboratory, UK  
 SO Comunicaciones presentadas a la Jornadas del Comité Español de la  
 Detergencia (2001), 31, 97-110  
 CODEN: CJCDD7; ISSN: 0212-7466  
 PB Comité Español de la Detergencia, Tensioactivos y Afines  
 DT Journal  
 LA English  
 AB On an earlier occasion we discussed a QSPR (Quant. Structure-Property  
 Relationship) based on log P fragment values, for CMC of anionic  
 surfactants. Since then we have continued to refine the log P calcul.  
 method as applied to surfactants, using aquatic toxicity correlations. In  
 light of these developments, we have updated the QSPR approach and applied  
 it to further CMC data on ether sulfates of general formula  
 $R_1(OCH_2CHR_2)_nOSO_3Na$  and ester sulfonates of general formula  
 $R_1CH(CO_2R_2)SO_3Na$ . The QSPR correlations provide insights into the role of  
 the ether and ester functions in micellization.  
 IT 14858-46-9 14858-51-6 14858-57-2  
 100900-05-8 104729-08-0 350047-52-8  
 350047-53-9 350047-55-1 350047-56-2  
 350047-57-3  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)  
 (structure-CMC relationships for anionic surfactants)  
 RN 14858-46-9 CAPLUS  
 CN 2-Propanol, 1-[2-(dodecyloxy)-1-methylethoxy]-, 2-(hydrogen sulfate),  
 sodium salt (1:1) (CA INDEX NAME)



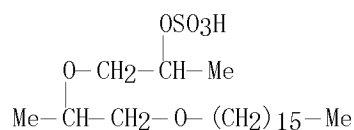
● Na

RN 14858-51-6 CAPLUS  
 CN 2-Propanol, 1-[1-methyl-2-(tetradecyloxy)ethoxy]-, 2-(hydrogen sulfate),  
 sodium salt (1:1) (CA INDEX NAME)



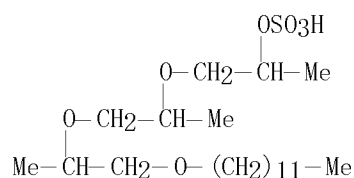
● Na

RN 14858-57-2 CAPLUS  
 CN 2-Propanol, 1-[2-(hexadecyloxy)-1-methylethoxy]-, 2-(hydrogen sulfate),  
 sodium salt (1:1) (CA INDEX NAME)



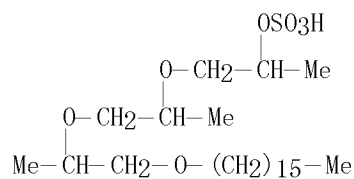
● Na

RN 100900-05-8 CAPLUS  
 CN 2-Propanol, 1-[2-[2-(dodecyloxy)-1-methylethoxy]-1-methylethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



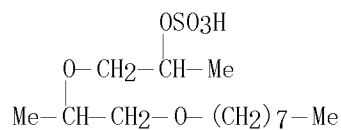
● Na

RN 104729-08-0 CAPLUS  
 CN 2-Propanol, 1-[2-[2-(hexadecyloxy)-1-methylethoxy]-1-methylethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



● Na

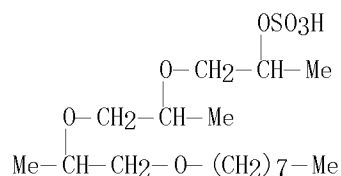
RN 350047-52-8 CAPLUS  
 CN 2-Propanol, 1-[1-methyl-2-(octyloxy)ethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



● Na

RN 350047-53-9 CAPLUS  
 CN 2-Propanol, 1-[1-methyl-2-[1-methyl-2-(octyloxy)ethoxy]ethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)

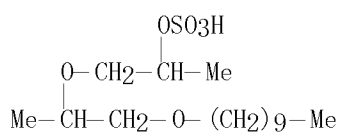




● Na

RN 350047-55-1 CAPLUS

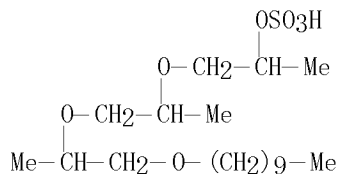
CN 2-Propanol, 1-[2-(decyloxy)-1-methylethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



● Na

RN 350047-56-2 CAPLUS

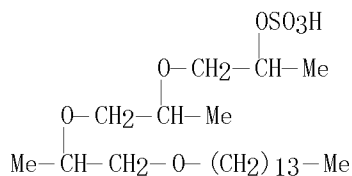
CN 2-Propanol, 1-[2-[2-(decyloxy)-1-methylethoxy]-1-methylethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



● Na

RN 350047-57-3 CAPLUS

CN 2-Propanol, 1-[1-methyl-2-[1-methyl-2-(tetradecyloxy)ethoxy]ethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



● Na

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1986:559281 CAPLUS

DN 105:159281

OREF 105:25581a,25584a

TI Principles for the attainment of minimum oil-water interfacial tension by surfactants: the characteristics of organized surfactant phase

AU Shinoda, Kozo; Shibata, Yutaka

CS Fac. Eng., Yokohama Natl. Univ., Yokohama, 240, Japan

SO Colloids and Surfaces (1986), 19(2-3), 185-96

CODEN: COSUD3; ISSN: 0166-6622

DT Journal

LA English

AB Ionic surfactants, whose hydrophile-lipophile properties are nearly balanced and which are soluble in hard water, were prepared. The phase behavior of such surfactants changed from water soluble to oil soluble with increasing salt concentration. At the salt concentration at which the HLB of an ionic surfactant balances for a given oil, a surfactant phase was observed. The weight of surfactant necessary to completely dissolve equal amts. of water and oil is a direct index of the solvent power of the surfactant: 1.54 weight% of R8CH(R6)CH2SO4Na dissolved 49.2% of water and 49.2% of hexane, representing about 32 times as much water and hexane as surfactant. The decane-water interfacial tension was at a min. when the HLB of the surfactant just balanced for the given aqueous solution. R12[OCH2CH(CH3)]3-SO4Na(Ca1/2), iso-R16[OCH2CH(CH3)]3-SO4Na(Ca1/2) and n-R16[OCH2CH(CH3)]3-SO4Na(Ca1/2) are all soluble in hard water and their hydrophile-lipophile properties are balanced at resp. salt concns., and the brine-decane interfacial tensions are all <0.0001 mN m-1. The Na:Ca ratio is close to the uni:di-valent cation ratio of sea water. These results can be understood as being characteristic of an organized surfactant phase, i.e., (1) a large solvent power towards water and oil, and (2) an ability to depress oil-water interfacial tension, due to the orientation, aggregation and structure formation of surfactant mols.

IT 100900-05-8 104729-05-7 104729-06-8

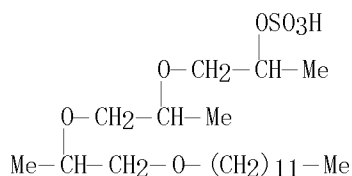
104729-07-9 104729-08-0 104729-09-1

RL: PRP (Properties)

(interfacial tension of oil-water system containing)

RN 100900-05-8 CAPLUS

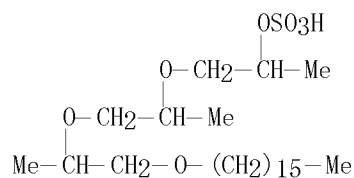
CN 2-Propanol, 1-[2-[2-(dodecyloxy)-1-methylethoxy]-1-methylethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



● Na

RN 104729-05-7 CAPLUS

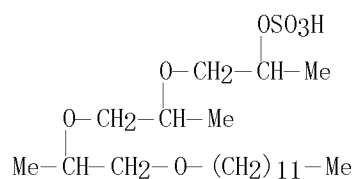
CN 2-Propanol, 1-[2-[2-(hexadecyloxy)-1-methylethoxy]-1-methylethoxy]-, 2-(hydrogen sulfate), calcium salt (2:1) (CA INDEX NAME)



● 1/2 Ca

RN 104729-06-8 CAPLUS

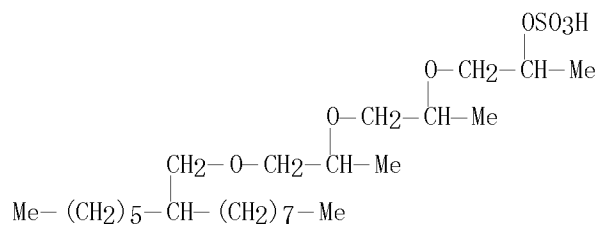
CN 2-Propanol, 1-[2-[2-(dodecyloxy)-1-methylethoxy]-1-methylethoxy]-, 2-(hydrogen sulfate), calcium salt (2:1) (CA INDEX NAME)



● 1/2 Ca

RN 104729-07-9 CAPLUS

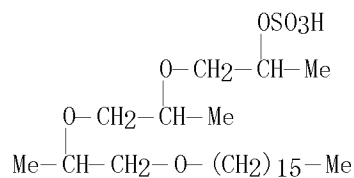
CN 2-Propanol, 1-[2-[2-[(2-hexyldecyl)oxy]-1-methylethoxy]-1-methylethoxy]-, 2-(hydrogen sulfate), calcium salt (2:1) (CA INDEX NAME)



● 1/2 Ca

RN 104729-08-0 CAPLUS

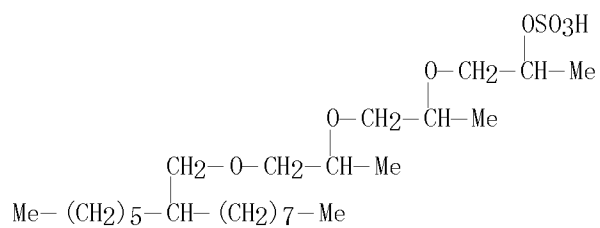
CN 2-Propanol, 1-[2-[2-(hexadecyloxy)-1-methylethoxy]-1-methylethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



● Na

RN 104729-09-1 CAPLUS

CN 2-Propanol, 1-[2-[2-[(2-hexyldecyl)oxy]-1-methylethoxy]-1-methylethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



● Na

L7 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1986:136496 CAPLUS

DN 104:136496

OREF 104:21465a,21468a

TI Ionic surfactants soluble in hard water and in hydrocarbons: behavior of organized surfactant solutions as a function of the hydrophilic-lipophilic balance

AU Shinoda, Kozo; Maekawa, Masaki; Shibata, Yutaka

CS Fac. Eng., Yokohama Natl. Univ., Yokohama, 240, Japan

SO Journal of Physical Chemistry (1986), 90(7), 1228-30

CODEN: JPCHAX; ISSN: 0022-3654

DT Journal

LA English

AB The Krafft points and critical micelle concns. of the Ca, Mg, and Na salts of alkyloxypropylene sulfates  $C_nH_{2n+10}CH_2CH(CH_3)SO_4M_{1/2}$  ( $n = 12-16$ ,  $M = Ca, Mg, \text{ and } Na$ ) were determined. The Krafft points were effectively depressed by the introduction of an oxypropylene group between hydrocarbon chain and the ionic group. The Krafft point and the cmc of  $C_{16}H_{33}OCH_2CH(CH_3)SO_4Mg_{1/2}$  were  $28^\circ$  and  $0.031 \text{ mmol/L}$ . The cmc value is  $1/260$ th that of  $C_{12}H_{25}SO_4Na$ , i.e., it is 260 times more adsorbable. The other striking feature of this type of surfactant,  $R_n[OCH_2CH(CH_3)]_3SO_4M_{1/2}$ , is its dissoln. in oil as well as in hard water. The surfactants are water soluble at low salt concns. and oil soluble at high salt concns.

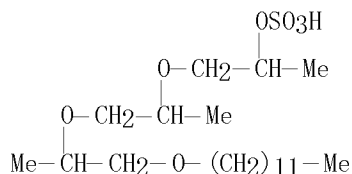
IT 100900-05-8

RL: PRP (Properties)

(critical micelle concentration and Krafft point of)

RN 100900-05-8 CAPLUS

CN 2-Propanol, 1-[2-[2-(dodecyloxy)-1-methylethoxy]-1-methylethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



● Na

L7 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1975:462423 CAPLUS

DN 83:62423

OREF 83:9861a,9864a

TI Long chain ether alcohol sulfates from propylene oxide and 1,2-butylene oxide

IN Weil, James K.; Stirton, Alexander J.

PA United States Dept. of Agriculture

SO U.S., 7 pp.

CODEN: USXXAM

DT Patent

LA English

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3843706	A	19741022	US 1971-203867	19711201
PRAI	US 1966-557375	A3	19660614		
	US 1969-844699	A3	19690523		

AB The biodegradable detergents  $R[OCH_2CH(R')]_n OSO_3Na$ , where  $R = C_{12-18}$  n-alkyl,  $R' = Me$  or  $Et$ , and  $n = 1-4$ , were prepared and their surface-active properties were determined. Thus, 81.8 g 1,2-butylene oxide [106-88-7] was added to 271 g 1-octadecanol [112-92-5] at  $182-8^\circ$  with alkaline catalysis, and the reaction mixture was distilled to sep.  $C_{18}H_{37}(OCH_2CH_2)_{20}H$  [14858-36-7] which was dissolved in  $CCl_4$  and treated with  $ClSO_3H$  and aqueous  $NaOH$  to prepare  $Na$  1,4-diethyl-3,6-dioxa-1-tetracosyl sulfate [14858-66-3].

IT 14858-46-9 14858-51-6 14858-57-2

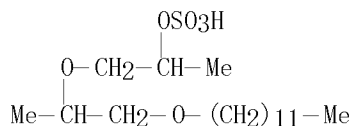
14858-64-1

RL: USES (Uses)

(detergents, biodegradable)

RN 14858-46-9 CAPLUS

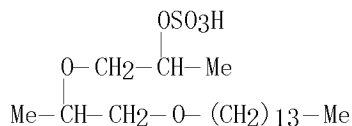
CN 2-Propanol, 1-[2-(dodecyloxy)-1-methylethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



● Na

RN 14858-51-6 CAPLUS

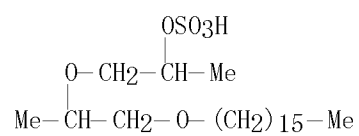
CN 2-Propanol, 1-[1-methyl-2-(tetradecyloxy)ethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



● Na

RN 14858-57-2 CAPLUS

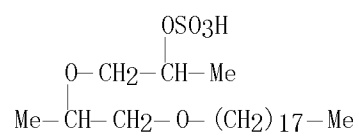
CN 2-Propanol, 1-[2-(hexadecyloxy)-1-methylethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



● Na

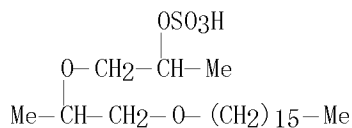
RN 14858-64-1 CAPLUS

CN 2-Propanol, 1-[1-methyl-2-(octadecyloxy)ethoxy]-, 2-(hydrogen sulfate),  
sodium salt (1:1) (CA INDEX NAME)



● Na

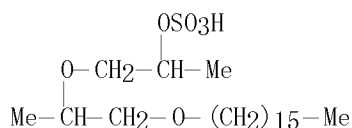
L7 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1973:468084 CAPLUS  
 DN 79:68084  
 OREF 79:10995a,10998a  
 TI Systematic study of the variables involved in the reverse-phase thin-layer chromatography of oxyethylated alkyl sulfate surfactants  
 AU Breyer, Arthur C.; Fischl, Marsha; Seltzer, E. Jane  
 CS Beaver Coll., Glenside, PA, USA  
 SO Journal of Chromatography (1973), 82(1), 37-52  
 CODEN: JOCRAM; ISSN: 0021-9673  
 DT Journal  
 LA English  
 AB Optimization of title chromatog. for title surfactants showed the best sepsns. can be obtained with glass plates covered with a 250  $\mu$ m layer of Alumina H, Alumina G, or Silica Gel G impregnated with a 3-5 volume % n-dodecanol-EtOH solution at 15-30.deg. using tanks pre-equilibrated and developed with a 3:2 MeOH-NH<sub>4</sub>OH solution The most satisfactory spot detection was obtained by using a 0.05% aqueous pinacryl yellow with a UV viewing chamber. Sample sizes of 0.5-2.0  $\mu$ l containing 5-20  $\mu$ g surfactant gave most satisfactory results.  
 IT 14858-57-2  
 RL: ANT (Analyte); ANST (Analytical study)  
 (thin-layer chromatog. of)  
 RN 14858-57-2 CAPLUS  
 CN 2-Propanol, 1-[2-(hexadecyloxy)-1-methylethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



● Na

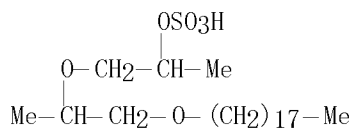


L7 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1971:14392 CAPLUS  
 DN 74:14392  
 OREF 74:2315a,2318a  
 TI Synthesis and surface active properties of long-chain ether alcohol  
 sulfates R(OCH<sub>2</sub>CHR')iOSO<sub>3</sub>Na  
 AU Weil, James K.; Stirton, Alexander J.; Wrigley, A. N.  
 CS East. Reg. Res. Lab., U. S. Dep. Agric., Philadelphia, PA, USA  
 SO Chim. Phys. Appl. Prat. Ag. Surface, C. R. Congr. Int. Deterg., 5th  
 (1969), Meeting Date 1968, Volume 1, 45-50 Publisher: Ediciones Unidas, S.  
 A., Barcelona, Spain.  
 CODEN: 22LKAT  
 DT Conference  
 LA English  
 AB Purified ether alc. sulfates were prepared by the sulfation of the separated  
 reaction products of ethylene, propylene and 1,2-butylene oxides with 12,  
 14, 16 and 18 C normal primary alcs. The effect of structure on critical  
 micelle concentration, Krafft point, surface tension and lime soap dispersing  
 power was investigated. The effect of oxyalkyl groups in reducing critical  
 micelle concentration and increasing Krafft point was expressed in terms of an  
 equivalent number of methylene groups.  
 IT 14858-57-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 14858-57-2 CAPLUS  
 CN 2-Propanol, 1-[2-(hexadecyloxy)-1-methylethoxy]<sup>-</sup>, 2-(hydrogen sulfate),  
 sodium salt (1:1) (CA INDEX NAME)



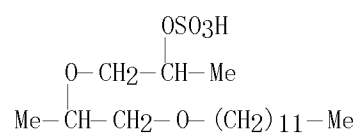
● Na

IT 14858-64-1  
 RL: USES (Uses)  
 (surface-active properties of)  
 RN 14858-64-1 CAPLUS  
 CN 2-Propanol, 1-[1-methyl-2-(octadecyloxy)ethoxy]<sup>-</sup>, 2-(hydrogen sulfate),  
 sodium salt (1:1) (CA INDEX NAME)



● Na

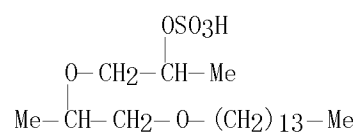
IT 14858-46-9 14858-51-6  
 RL: PRP (Properties)  
 (surface-active properties of)  
 RN 14858-46-9 CAPLUS  
 CN 2-Propanol, 1-[2-(dodecyloxy)-1-methylethoxy]<sup>-</sup>, 2-(hydrogen sulfate),  
 sodium salt (1:1) (CA INDEX NAME)



● Na

RN 14858-51-6 CAPLUS

CN 2-Propanol, 1-[1-methyl-2-(tetradecyloxy)ethoxy]-, 2-(hydrogen sulfate),  
sodium salt (1:1) (CA INDEX NAME)



● Na

L7 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1967:57023 CAPLUS

DN 66:57023

OREF 66:10791a,10794a

TI Ether alcohol sulfates. Effect of oxypropylation and oxybutylation on surface-active properties

AU Weil, James K.; Stirton, Alexander J.; Nunez-Ponzoa, M. V.

CS Eastern Regional Res. Lab., Philadelphia, PA, USA

SO Journal of the American Oil Chemists' Society (1966), 43(11), 603-6

CODEN: JAOCA7; ISSN: 0003-021X

DT Journal

LA English

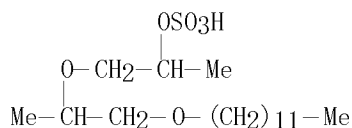
AB The reaction products of 1,2-butylene oxide (I) with C12-18 alcs. were compared with those from the propylene oxide (II) reaction. A 60% yield of the 1st derivative was obtained for the I reaction, compared with a maximum yield of 50% for the II reaction. First and 2nd derivs. were fractionally distilled from the reaction mixts. and characterized as pure ether alcs. and their acetates. Sulfates of the pure ether alcs. had slightly greater solubility than those of II, and both reactions were more effective than oxyethylation. Dioxyalkylated products had lower Krafft points than monoxyalkylated products. A low degree of oxyalkylation had only minor effects on the detergency of alc. sulfates, but polyoxybutylation caused significant redns. in foam height for the C16-18 alc. sulfates. Critical micelle concentration was reduced both by an increasing degree of oxyalkylation and mol. weight of epoxide. All of the ether alc. sulfates were effective limesoap dispersing agents. 11 references.

IT 14858-46-9, 2-Propanol, 1-[2-(dodecyloxy)-1-methylethoxy]-, hydrogen sulfate sodium salt 14858-51-6, 2-Propanol, 1-[1-methyl-2-(tetradecyloxy)ethoxy]-, hydrogen sulfate sodium salt 14858-57-2, 2-Propanol, 1-[2-(hexadecyloxy)-1-methylethoxy]-, hydrogen sulfate sodium salt 14858-64-1

RL: USES (Uses)  
(surface-active)

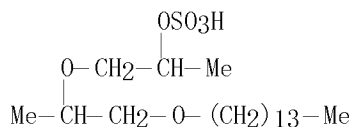
RN 14858-46-9 CAPLUS

CN 2-Propanol, 1-[2-(dodecyloxy)-1-methylethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



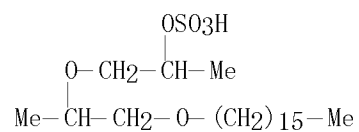
RN 14858-51-6 CAPLUS

CN 2-Propanol, 1-[1-methyl-2-(tetradecyloxy)ethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



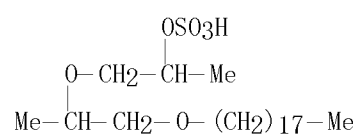
RN 14858-57-2 CAPLUS

CN 2-Propanol, 1-[2-(hexadecyloxy)-1-methylethoxy]-, 2-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)



● Na

RN 14858-64-1 CAPLUS  
 CN 2-Propanol, 1-[1-methyl-2-(octadecyloxy)ethoxy]-, 2-(hydrogen sulfate),  
 sodium salt (1:1) (CA INDEX NAME)



● Na

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(FILE 'HOME' ENTERED AT 11:30:35 ON 29 MAY 2009)

FILE 'REGISTRY' ENTERED AT 11:30:57 ON 29 MAY 2009

L1           STRUCTURE UPLOADED  
              D  
L2           0 SEA SSS SAM L1  
L\*\*\* DEL     0 S L1  
L3           27 SEA SSS FUL L1  
              D QUE L3 STAT  
L4           27 SEA ABB=ON PLU=ON L3 AND ED<2/10/2005  
L5           15 SEA ABB=ON PLU=ON L3 AND CAPLUS/LC  
L6           12 SEA ABB=ON PLU=ON L3 NOT L5  
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FILE 'CAPLUS' ENTERED AT 11:34:31 ON 29 MAY 2009

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SINCE FILE

TOTAL

ENTRY

SESSION

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